

MATTINGLY, STANGER & MALUR, P.C.

JOHN R. MATTINGLY*
DANIEL J. STANGER
SHRINATH MALUR*

GENE W. STOCKMAN
Of Counsel

JEFFREY M. KETCHUM
Registered Patent Agent

* Bar Membership Other Than Virginia

ATTORNEYS AT LAW
1800 DIAGONAL ROAD, SUITE 370
ALEXANDRIA, VIRGINIA 22314

PATENT, TRADEMARK
AND COPYRIGHT LAW

FACSIMILE: (703) 684-1157

15915 U.S. PTO
10/664891
09/22/03

(703) 684-1120

Date: September 19, 2003

Attorney Docket No. ASA-1157

To: Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir: Transmitted herewith for filing is the patent application of:

Inventor: K. SHIGA et al (SEE ATTACHED LIST)

For:

Enclosed are:

11 Sheets of Drawings
 This application is being filed without an executed Declaration.

Priority is claimed from Japan Application No. 2003-206165
 filed August 6, 2003. A certified copy is attached herewith.

Copies of the disclosure documents listed on the attached PTO 1449 form and
 discussed in the specification or attached Information Disclosure Statement.

Small entity status under 37 CFR 1.9 and 1.27 is hereby claimed.

Specification: Abstract , Description 32 pages; and 13 claim(s).

Preliminary Amendment.

Executed Declaration.

The filing fee is calculated as shown below:

For:	No. Filed	No. Extra
Basic Fee		
Total Claims	13 -20 =	* 0
Indep Claims	6 - 3 =	* 3
<input type="checkbox"/> Multiple Dependent Claim (s)		

* If difference is less than zero
 then enter '0' in second column

Rate	Fee
\$ 375	
x 9	\$
x 42	\$
+ 140	\$
Total	\$

Rate	Fee
\$ 750	
x 18	\$ 0
x 84	\$ 252
+ 280	\$ 0
Total	\$ 1,002

A check or credit card payment form in the amount of \$ 1,002.00 is enclosed for the filing fee.

The Commissioner is hereby authorized to charge any additional fees that may be required to
 Deposit Account No. 50-1417.

Respectfully Submitted,

By: 
 John R. Mattingly
 Registration No. 30,293

22388 U.S. PTO
10/664891



09/22/03